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# 10X Mitutoyo Plan Apo NUV Infinity Corrected Objective

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10X Mitutoyo Plan Apo NUV Infinity Corrected Objective, #86-176

Stock **#86-176** **1 In Stock**

⊖ 1 ⊕ MRP ₹4,30,110

📌 Price inclusive of all taxes

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## Product Downloads

### General

378-809-5 **Model Number:**

**Compatible Tube Lens Focal Length (mm):**  
Focal Length: 200mm

Microscope Objective **Type:**

Infinity Corrected **Style:**

Mitutoyo **Manufacturer:**

**Note:**  
Example Application: passivation (insulation films) of semiconductor circuits and repair of color filters of LCD panels (defect repair)

## Physical & Mechanical Properties

64.50 **Length excluding Threads (mm):**

34 **Maximum Diameter (mm):**

255.00 **Weight (g):**

## Optical Properties

N/A **Compatible Cover Glass Thickness (mm):**

355, 532 **Design Wavelength DWL (nm):**

0.64 **Horizontal Field of View, 1/2" Sensor:**

0.88mm **Horizontal Field of View, 2/3" Sensor:**

20.00 **Focal Length FL (mm):**

10X **Magnification:**

0.28 **Numerical Aperture NA:**

1.0 **Resolving Power ( $\mu\text{m}$ ):**

3.50 **Depth of Field ( $\mu\text{m}$ ):**

2.4 **Field of View, 24 Diameter Field Eyepiece (mm):**

1.8 **Field of View, 18 Diameter Field Eyepiece (mm):**

30.5 **Working Distance (mm):**

355 - 620 **Wavelength Range (nm):**

95 **Parfocal Length (mm):**

N/A **Immersion Liquid:**

## Sensor

2/3" **Maximum Sensor Format:**

## Threading & Mounting

M26 x 36 TPI **Mounting Threads:**

## Environmental & Durability Factors

-5 to +45 **Operating Temperature ( $^{\circ}\text{C}$ ):**

20 - 80% **Operating Humidity:**

## Regulatory Compliance

**RoHS 2015:**  
[Exempt](#)

**Certificate of Conformance:**  
[View](#)

**REACH 241:**  
[Contains SVHC\(s\)](#)

Japan **Country of Origin:**

**Imported By:**  
Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
Phone: +91- 80-6845 0000

## Product Details

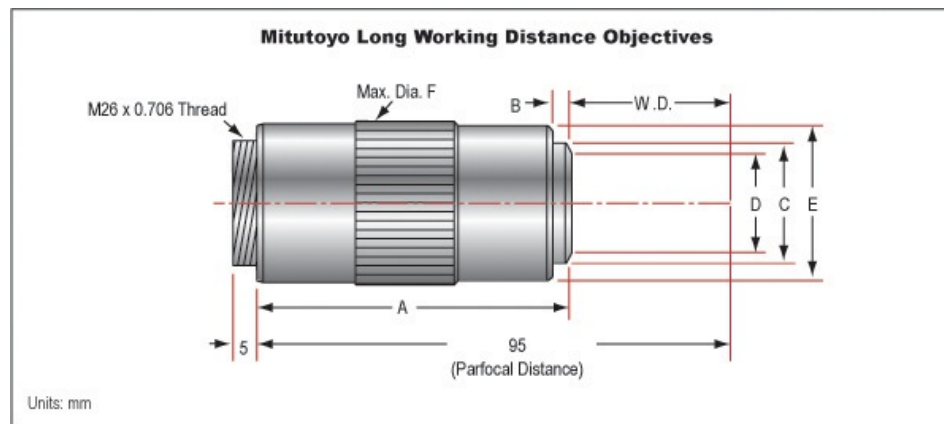
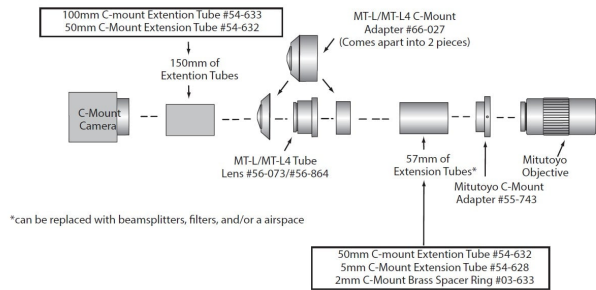
- Ideal for Bright Field Imaging in UV, Visible, and NIR Spectral Regions
- Excellent Performance at Nd:YAG Laser Lines
- Broad Spectral Ranges

Mitutoyo NIR, NUV, and UV Infinity Corrected Objectives combine the benefits of the standard [M Plan Apo](#) and [M Plan Apo SL series objectives](#) with enhanced spectral ranges. The NIR objectives are corrected from 480 to 1800nm and feature enhanced transmission of the fundamental and second harmonic of Nd:YAG lasers for laser cutting applications. The NUV and UV series of objectives also have excellent performance at the second, third, and fourth Nd:YAG harmonics of 532nm, 355nm, and 266nm respectively. Mitutoyo NIR, NUV, and UV Infinity Corrected Objectives are ideal for applications that require a significant distance between the objective lens and the object such as semiconductor inspection, machine vision, and defect detection. The HR series offers an increased numerical aperture, providing smaller spot sizes and higher resolution.

### Accessory Tube Lenses

[Accessory Tube Lenses](#) and [C-Mount Thread Adapters](#) can be used to adapt the Mitutoyo objectives to additional configurations.

## Technical Information



### Dimensions (mm)

Stock No.	M Plan NIR	A	B	C	D	E	F	W.D.
#46-402	5X NIR	57.50	-	23.80	23.00	32.20	34.00	37.50
#46-403	10X NIR	64.50	1.00	25.20	24.80	32.20	34.00	30.50
#46-404	20X NIR	75.00	-	-	-	32.20	34.00	20.00
#46-405	50X NIR	78.00	-	-	-	32.20	34.00	17.00
#46-406	100X NIR	83.00	-	25.00	24.60	32.20	34.00	12.00
#56-982	50X NIR HR	85.00	-	-	-	37.00	39.00	10.00
#56-983	100X NIR HR	85.00	-	-	-	37.00	39.00	10.00
#89-350	20X NIR B	69.50	-	-	-	37.00	37.00	25.50
#89-351	50X NIR B	69.50	-	-	-	37.00	37.00	25.50
#37-550*	20X NIR LCD	75.02	-	-	-	32.20	34.00	20.35
Stock No.	M Plan NUV	A	B	C	D	E	F	W.D.
#86-176	10X NUV	64.50	-	25.20	24.80	32.20	34.00	30.50
#46-407	20X NUV	78.00	-	-	-	32.20	34.00	17.00
#46-408	50X NUV	80.00	-	-	-	32.20	34.00	15.00
#46-409	100X NUV	84.00	1.80	25.00	24.00	32.20	34.00	11.00
#86-177	50X NUV HR	85.00	-	-	-	37.00	39.00	10.00
Stock No.	M Plan UV	A	B	C	D	E	F	W.D.
#86-175	10X UV	75.00	-	-	-	32.20	34.00	20.00
#56-320	20X UV	80.00	-	-	-	32.20	34.00	15.00
#56-321	50X UV	83.00	-	-	-	32.20	34.00	12.00
#56-322	80X UV	85.00	-	22.70	-	32.20	34.00	10.00

\*LCD 20X parafocal length is 95.37

